



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

Address: COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,713	08/08/2006	Minoru Yasuike	040894-7483	2433
9629 7590 11/12/2008 MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004				
EXAMINER				
LOPEZ, MICHELLE				
ART UNIT		PAPER NUMBER		
3721				
MAIL DATE		DELIVERY MODE		
11/12/2008		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/588,713

Applicant(s)

YASUIKE ET AL.

Examiner

Michelle Lopez

Art Unit

3721

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 August 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 August 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-893)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____
- Paper No(s)/Mail Date 8/8/06

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 8/8/06 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chang USPN 6695194 in view of Takagi USPN 6846022.

Chang discloses a pneumatic driven tool having an air chamber and an end cap attached to the tool and to which a hose connected to a compressed air supply source is removable jointed, the end cap comprising a body attached to the tool's handle and having a first opening for providing communication between an inside and an outside of the air chamber (as shown in fig. 2), and a plug housing housed and mounted in the first opening and having a second opening directed in a first direction along a direction of the first opening of the cap, but fails to disclose an intermediate sleeve having one end held in the second opening and turnable on the first axis

and the other end formed with a third opening extending in a second axis direction inclined at a predetermined angle with respect to the first axis; and a plug portion having one end held in the third opening and turnable on the second axis and the other end extending in a direction inclined at a predetermined angle with respect to the second axis.

Takagi teaches the concept of a universal joint, comprising: a plug housing 202 capable of being attached to a first opening of an end cap body, and having a second opening directed in a first axis G_3 of the first opening; an intermediate sleeve 203 having one end held in the second opening of the plug housing 202 and turnable (about ball bearings 205) on the first axis G_3 and the other end formed with a third opening extending in a second axis G_1 inclined at a predetermined angle with respect to the first axis G_3 ; and a plug portion 201 having one end held in the third opening (at 203) and turnable (about ball bearings 204) on the second axis G_1 and the other end extending in a direction inclined at a predetermined angle with respect to the second axis for the purpose of facilitating the connection of air hose. It would have been obvious at the time the invention was made to have provided Chan's end cap with a plug housing, intermediate sleeve, and plug portion as taught by Takagi in order to facilitate the connection and removal of an air hose.

With respect to claim 2, Chung discloses wherein an air plug portion formed integrally with the plug portion and capable of being connected to a socket on the air hose for supplying compressed air from the source (as shown in col. 1, lines 10-12).

4. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chang in view of Takagi as applied to claim 1 above, and further in view of Yamada et al. USPN 4909419.

The modified invention of Chang discloses the claimed end cap substantially as claimed except for the relieve valve mechanism including a valve member arranged in the end cap body and slidable along the first axis, and a spring for biasing the valve member toward the side of the air chamber. However, Yamada teaches an end cap attached to an air chamber of an air-driven tool, further comprising a relief valve mechanism with a valve member 11 and a spring 13 for exhausting pressurized air within the air chamber to the atmosphere (via port 9). In view of Yamada, it would have been obvious to one having ordinary skill in the art to have provided Chang's device with a relief valve mechanism as taught by Yamada in order to release pressurized air within the tool's air chamber to the atmosphere.

5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chang in view of Takagi and Yamada et al. as applied in paragraph 5 above and further in view of Mukoyama et al. USPN 6145727.

The modified invention of Chang discloses the end cap of an air-driven tool substantially as claimed except for a filter case with a filter to prevent foreign substance from being fed to an inside of the air chamber. Mukoyama teaches the concept of a pneumatic tool comprising an air chamber with an end cap 86 attached therein, wherein the cap has a coupler 86 to be connected to a pressurized air supply via an air hose, and a filter case (at an edge of the cap 86) having a filter member 82a for so that foreign particles may not enter the air chamber (as shown in col. 12, lines 21-31). In view of Mukoyama, it would have been obvious to one having ordinary skill in the art to have provided Chang's device with a filter case and filter as taught by Mukoyama in order to prevent foreign particles may not enter the air chamber.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See the attached PTO-892 for related art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michelle Lopez whose telephone number is 571-272-4464. The examiner can normally be reached on Monday - Thursday: 8:00 am - 6:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi Rada can be reached on 571-272-4467. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ML/
Patent Examiner

/Rinaldi I Rada/
Supervisory Patent Examiner, Art Unit 3721